CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NMS/W.No.08/CSR.11/670c/CEMENT/2014-15 Date: 07.11.2014

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. N.M. Shivakumar,** # 7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
***NAME OF THE WORK**	:	Improvements of Roads and Drains at 6th Main Road in Balaji Layout in Ward No.08, Kodigehalli Sub Division (Change of Place: Kodigehalli Village), BBMP, Bangalore.
REFERENCE	:	AEE/KSD/PR/ /2014-15 Dated: 05.11.2014
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	05.11.2014
PERIOD OF TESTING	:	05.11.2014 to 07.11.2014

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	27.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	460 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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A.E.E.

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Job No.: CTCE/BBMP/NMS/W.No.08/CSR.11/670c/SAND-Gradation/2014-15 : 07.11.2014

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N.M. Shivakumar,**
# 7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

*** Name of Work** : Improvements of Roads and Drains at 6th Main Road in Balaji Layout in Ward No.08, Kodigehalli Sub Division (Change of Place: Kodigehalli Village), BBMP, Bangalore.

Reference : AEE/KSD/PR/ /2014-15 Dated: 05.11.2014

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 05.11.2014

Date of Testing : 07.11.2014

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.14	90-100	90-100	90-100	95-100
2.36	78.87	60-95	75-100	85-100	95-100
1.18	54.94	30-70	55-90	75-100	90-100
600 Micron	24.69	15-34	35-59	60-79	80-100
300 Micron	11.06	5-20	8-30	12-40	15-50
150 Micron	4.51	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

Civil-Tech Consultants & Engineers Bangalore

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Job No.: CTCE/BBMP/NMS/W.No.08/CSR.11/670c/AGG/GR/2014-15 : 07.11.2014

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N.M. Shivakumar,**
# 7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

*** Name of Work** : Improvements of Roads and Drains at 6th Main Road in Balaji Layout in Ward No.08, Kodigehalli Sub Division (Change of Place: Kodigehalli Village), BBMP, Bangalore.

Reference : AEE/KSD/PR/ /2014-15 Dated: 05.11.2014

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 05.11.2014

Date of Testing : 07.11.2014

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.85	95-100	85-100
20	50.35	30-70	0-20
10	28.50	10-35	0-5
4.75	3.20	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/NMS/W.No.08/CSR.11/670c/CUBE/2014-15 12.12.2014

TEST REPORT ON CONCRETE CUBES

*** Client**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	**: Mr. N.M. Shivakumar,** # 7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
*** Name of the work**	: Improvements of Roads and Drains at 6th Main Road in Balaji Layout in Ward No.08, Kodigehalli Sub Division (Change of Place: Kodigehalli Village), BBMP, Bangalore.
*** Reference**	: AEE/KSD/PR/ /2014-15 Dated: 05.11.2014
*** Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{20}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 11.12.2014

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.11.2014	12.12.2014	8.154	497.5	22.11
2	14.11.2014	12.12.2014	8.236	506.2	22.50
3	14.11.2014	12.12.2014	8.375	518.7	23.05

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